Fall 9-1-2005

WEL 190T.01: Welding Codes and Certification

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The University of Montana

THE UNIVERSITY OF MONTANA
COLLEGE OF TECHNOLOGY -- MISSOULA
INDUSTRIAL TECHNOLOGY DEPARTMENT

WELDING TECHNOLOGY

COURSE SYLLABUS

COURSE NUMBER: Wel 190T,

COURSE NAME: Welding Codes and Certification

SEMESTER CREDITS: 3

PREREQUISITES: None

INSTRUCTOR NAME: Bill Gleason
PHONE NUMBER: 243-7647
OFFICE LOCATION: West Campus, Welding Lab Office
OFFICE HOURS: 10:00 to 11:00 Monday thru Friday and by appointment

RELATIONSHIP TO PROGRAM(S):
Welding codes and certification contributes to the objectives of the Welding Technology Program by increasing the students' knowledge of welding codes, correct welding procedures with an overall view of A.W.S. certification and ASME requirements.

COURSE DESCRIPTION:
Fundamental concepts and requirements of the American Society of Mechanical Engineers (ASME) and American Welding Society (AWS) are examined. Through laboratory Experience, students are provided with the opportunity to qualify (certify) under the two codes mentioned above.

STUDENT PERFORMANCE OUTCOMES:
Occupational Performance Obiectives
Upon completion of this course, the student will be able to:

- Interpret welding codes and their use.
- Develop welding skills for certification.
- Understand procedure and performance welding qualification

STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

Written exams/assignments	100% (lowest test score omitted)
A	96-100
B	85-95
C	75-84
D	65-74
F	64 and below

OTHER POLICIES:

Safety is required to be practiced at all times, Eye protection is mandatory at all times in the lab area. Disregarding safety practices, endangering yourself or others may result in your being denied access to the lab areas.

REQUIRED TEXT:

None

SUGGESTED REFERENCE MATERIALS:

Numerous handouts provided by instructor. For reference, AWS Structural Welding Code- Steel, will be used.

SUPPLIES:

None

COURSE OUTLINE:

1. General Philosophy of welding codes
2. Workmanship standards
3. Procedure Qualification
4. Performance Qualification
5. Preparation of materials for plate and pipe qualification
6. Plate qualification-AWS
7. Pipe certification-AWS/ASME as they relate
8. Practical welding experience
9. Non-destructive testing of welds